

Central R-III Curriculum Form

Grade:	Subject/Unit of Instruction: Unit 10: Geometry/Circles	
Pacing: 1 week	Priority Standard: G.GPE.B.3;Use coordinates to prove geometric theorems algebraically. G.MG.A.3;Apply geometric methods to solve design mathematical modeling problems. Supporting Standards:(MLS # only) G.CO.A.1;Define angle, circle, perpendicular line, parallel line, line segment and ray based on the undefined notions of point, line, distance along a line and distance around a circular arc. G.C.A.1;Prove that all circles are similar using similarity transformations. G.C.A.2;Identify and describe relationships among inscribed angles, radii and chords of circles. G.C.A.3;Construct the inscribed and circumscribed circles of a triangle, and prove properties of angles for a quadrilateral inscribed in a circle. G.C.B.4;Derive the formula for the length of an arc of a circle. G.C.B.5;Derive the formula for the area of a sector of a circle. G.GPE.A.1;Derive the equation of a circle. G.GPE.A.2;Derive the equation of a parabola given a focus and directory. G.GMD.A.1;Give an informal argument for the formulas for the circumference of a circle, area of a circle, volume of a cylinder, pyramid and cone.	
Learning Activities: Notes: Homework: https://drive.google.com/open?id=0B1Pg6s5EIDD2eTJoYjBKN1JxSXc https://drive.google.com/drive/u/0/folders/0B3dBWz81ye4SWGRoeF9yWXh2Slk Learning Target 1: To use properties of a tangent to a circle. Success Criteria (I can statement): - recognize that a radius of a circle and the tangent that intersects the endpoint of the radius on the circle have a special relationship. Learning Target 2: To use congruent chords, arcs, and central angles and to use perpendicular bisectors to chords. Success Criteria (I can statement): - To identify chords, arcs and central angles. Learning Target 3: To find the measure of an inscribed angle and the angle formed by a tangent and a chord Success Criteria (I can statement): - To find the measure of an inscribed angle and an angle formed by a tangent and a chord. Learning Target 4: To write the equation of a circle and find the center and radius of a circle. Success Criteria (I can statement): - Use the Equation of a Circle to find the center point and radius. - Rewrite the equation in Standard Form.		Resources: Pearson Geometry Text Book Math XL IXL- Geometry: U1-U17

Prerequisite (Prior Skills Set Needed) : Solving equations Distance Formula Proficient knowledge of Isosceles and Equilateral triangles Pythagorean theorem		
Assessment Activities(Formal Assessments): https://drive.google.com/drive/u/0/folders/0B3dBWz81ye4SWGROeF9yWXh2Slk	Assessments: https://drive.google.com/open?id=0B1Pg6s5EIDD2cksyRW_N2bWVRNDQ https://drive.google.com/drive/u/0/folders/0B3dBWz81ye4SWGROeF9yWXh2Slk	
Academic Vocabulary: Chord, inscribed angle, intercepted arc, locus, point of tangency, secant, standard form of an equation of a circle, tangent to a circle.		
Other Resources and Notes:		